

## Basic Information

<b>Product Name</b>	Anti-MUC5AC Antibody (Clone#45M1)	
<b>Gene Name</b>	MUC5AC	
<b>Source</b>	Mouse	
<b>Isotype</b>	IgG1	
<b>Species Reactivity</b>	human, rabbit, rat	
<b>Tested Application</b>	WB, IHC, ICC	
<b>Contents</b>	200ug/ml antibody with PBS , 0.02% NaN <sub>3</sub> , 1mg BSA and 50% glycerol.	
<b>Immunogen</b>	Mucin from human ovarian cyst fluid.	
<b>concentration</b>	200ug/ml	
<b>Purification</b>	Ascites	
<b>Observed MW</b>	586KD	
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry: 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Mucin 5AC (Muc5AC) is a protein that in humans is encoded by the MUC5AC gene. Using real-time RT-PCR, Moehle et al. (2006) found that MUC5AC was highly expressed in adult trachea and stomach. Expression was lower in adult lung and weak in fetal lung, and no expression was detected in other tissues. This gene has been linked to mucus hypersecretion in the pulmonary tracts and associated to Chronic obstructive pulmonary disease. Moreover, Muc5ac is identified as a direct and Critical mediator of resistance during intestinal nematode infection.

## Selected Validation Data

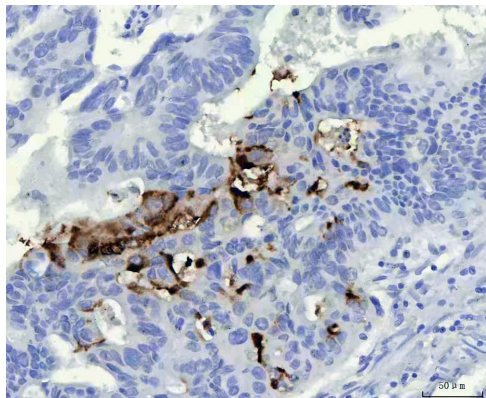


Figure 1. IHC analysis using anti- MUC5AC antibody (BM0054). detected in paraffin-embedded section of human colon cancer tissue. Peroxidase Conjugated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using HRP Conjugated mouse IgG Super Vision Assay Kit (Catalog#SV0001) with DAB as the chromogen.